

Prepare the Dataset

Team id	PNT2022TMID27475
Project name	Retail Store Stock Inventory Analytics

The screenshot shows the IBM Cognos Analytics 'Content' page. A green notification bar at the top states 'mock_kaggle.csv was uploaded successfully.' with a 'Hide Details' link. Below the notification, the 'Content' section displays a grid of items: '50_Startups_Exploration', '50_Startups.csv', 'Assignment-2', 'mock_kaggle.csv', and 'Pharma_Monthly_Sales.csv'. Each item shows its 'Last Accessed' time and a small icon. The 'mock_kaggle.csv' item has a 'CSV' label and an upload icon. The page header includes 'IBM Cognos Analytics with Watson', a search bar, and a 'New' button.

The screenshot shows the 'Select sources' dialog box in IBM Cognos Analytics. The dialog has a search bar and a list of items under 'My content'. The items are: '50_Startups_Exploration', '50_Startups.csv', 'Assignment-2', 'mock_kaggle.csv', and 'Pharma_Monthly_Sales.csv'. The 'mock_kaggle.csv' item is selected. On the right side, there is a 'Filter by' section with options for 'Type' (Folders, Packages, Files, Data sets, Modules) and 'Modified' (All, Today, Yesterday, Past week, Past month). The 'All' option under 'Modified' is selected.

IBM Cognos Analytics with Watson

Search content

Properties

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

Row Id

data

venda

estoque

preco

Grid Relationships Custom tables

Row Id	data	venda	estoque	preco
1	2014-01-01	0	4972	1.29
2	2014-01-02	70	4902	1.29
3	2014-01-03	59	4843	1.29
4	2014-01-04	93	4750	1.29
5	2014-01-05	96	4654	1.29
6	2014-01-06	145	4509	1.29
7	2014-01-07	179	4329	1.29
8	2014-01-08	321	4104	1.29
9	2014-01-09	125	4459	1.09
10	2014-01-10	88	5043	1.09
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09

Month data:

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=825882129_83381f2b08614e5290882ea8dcaf622_sessionTemp&objRef=&tid=825882129_83381f2b08614e5...

Calculation name

Components

mock_kaggle.csv

Row Id

data

venda

estoque

preco

Expression

1 Month(data_)

Validation Results

✓ The expression is valid.

Calculate after aggregation

Cancel OK

12 2014-01-12 121 5118 1.09

IBM Cognos Analytics with Watson

Create calculation

Name: Sales

Components

- mock_kaggle.csv
 - # M_Data
 - # Row Id
 - data
 - venda
 - estoque
 - preco

Expression

```
1 IF(venda =0) THEN (median(venda )) ELSE (venda)
```

Validation Results

✓ The expression is valid.

07:57 PM 16-11-22

IBM Cognos Analytics with Watson

Create calculation

Name: Calculation name

Components

- mock_kaggle.csv
 - # M_Data
 - # Row Id
 - Year
 - sales
 - Stock
 - Price

Expression

```
1 estoque IF(venda =0) THEN (median(venda )) ELSE (venda)
```

Validation Results

08:06 PM 16-11-22

IBM Cognos Analytics with Watson

Create calculation

Name: Calculation name

Components

- mock_kaggle.csv
 - # M_Data
 - # Row Id
 - Year
 - Sales
 - Stock
 - Price

Expression

```
1 estoque preco IF (venda=0) THEN (median(venda)) ELSE {venda}
```

Validation Results

14

IBM Cognos Analytics with Watson

Data module

- New data module
 - Navigation paths
 - mock_kaggle.csv
 - # M_Data
 - # Row Id
 - Year
 - Sales
 - Stock
 - Price

Grid

Row Id	Year	Sales	Stock	Price
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09
13	2014-01-13	134	4984	1.09
14	2014-01-14	80	4904	1.09
15	2014-01-15	82	4822	1.09
16	2014-01-16	94	4728	1.19
17	2014-01-18	159	4464	1.19
18	2014-01-19	199	4265	1.19
19	2014-01-20	104	4161	1.19
20	2014-01-21	70	4091	1.19
21	2014-01-22	127	3964	1.09

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=825882129_83381f2b08614e5290882ea8dcaf622_sessionTemp&objRef=&tid=825882129_83381f2b08614e5...

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Search content

Properties

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New data module

Navigation paths

mock_kaggle.csv

M_Data

Row Id

Year

Sales

Stock

Price

Row Id	Year	Sales	Stock	Price
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09
13	2014-01-13	134	4984	1.09
14	2014-01-14	80	4904	1.09
15	2014-01-15	82	4822	1.09
16	2014-01-16	94	4728	1.19
17	2014-01-18	159	4464	1.19
18	2014-01-19	199	4265	1.19
19	2014-01-20	104	4161	1.19
20	2014-01-21	70	4091	1.19
21	2014-01-22	127	3964	1.09

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=825882129_83381f2b08614e5290882ea8dcaf622_sessionTemp&objRef=&tid=825882129_83381f2b08614e5...

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Search content

Properties

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

M_Data

Row Id

Year

Sales

Stock

Price

Row Id	Year	Sales	Stock	Price
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09
13	2014-01-13	134	4984	1.09
14	2014-01-14	80	4904	1.09
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19	2014-01-20	104	4161	1.19
20	2014-01-21	70	4091	1.19
21	2014-01-22	127	3964	1.09

Stock-Format Data:

The screenshot shows the IBM Cognos Analytics interface. A 'Data format' dialog box is open for the 'Stock' column. The 'Format type' is set to 'Number'. The 'Advanced options' section is visible, showing settings for 'Number of decimal places' (Default), 'Negative sign symbol' (Default), 'Use thousands separator' (No), 'Negative sign position' (Default), and 'Missing value characters' (<empty>). The background shows a table with columns 'Price' and 'Price' containing numerical values.

Sales-Format Data:

The screenshot shows the IBM Cognos Analytics interface with a 'Data format' dialog box open for the 'Sales' column. The dialog has a 'Column' field set to 'Sales' and a 'Format type' dropdown set to 'Number'. Below this, there are several configuration options, each with an information icon, a label, and a dropdown menu:

- Number of decimal places:** Set to 'Default'.
- Negative sign symbol:** Set to 'Default'.
- Use thousands separator:** Set to 'No' (this option is highlighted with a blue border).
- Negative sign position:** Set to 'Default'.
- Missing value characters:** Set to '<empty>'.

At the bottom of the dialog, there are two buttons: 'Advanced options' and 'Reset properties'.

Price-Format Data:

IBM Cognos Analytics with Watson

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

- # M_Data
- # Row Id
- Year
- Sales
- Stock
- Price

Data format

Column: Price

Format type: Number

① Number of decimal places: Default

① Negative sign symbol: Default

① Use thousands separator: No

① Negative sign position: Default

① Missing value characters: <empty>

Advanced options

Reset properties

Price
1.09
1.09
1.09
1.09
1.09
1.19
1.19
1.19
1.19
1.19
1.09

Revenue-Format Data:

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Data module

Search

New data module

Navigation paths

mock_kaggle.csv

- # Revenue
- # M_Data
- # Row Id
- Year
- Sales
- Stock
- Price

Data format

Column: Revenue

Format type: Number

① Number of decimal places: Default

① Negative sign symbol: Default

① Use thousands separator: No

① Negative sign position: Default

① Missing value characters: <empty>

Advanced options

Reset properties

Sales	Stock
4972	4972
4902	4902
4843	4843
4750	4750
4654	4654
4509	4509
4329	4329
4104	4104
4459	4459
5043	5043
5239	5239